

Onion Hybrid Performance
NDSU Carrington Research/Extension Center

Onion seed was planted May 5-7, 2008 in 4-inch paired rows on 18-inch centers at 167,000 seeds/A. The experimental design was a randomized complete block design with four replicates. Best management practices were used for fertility, weed, disease, and insect control. All hybrids were harvested on October 3. Split and diseased bulbs were graded as culls regardless of diameter.

There is no data for 2046 due to poor stand establishment. Spray tank contamination reduced stands and stunted growth. If hybrids had not achieved 50% tops down by September 27, the percentage of tops down was recorded. One-half of the hybrids did not achieve 50% tops down by September 27 (Table). Montero had the highest total yield, yield of 3-4 inch bulbs and percentage of single centers. Pulsar was the first hybrid to achieve 50% tops down and had the second highest total yield and yield of 3-4 inch bulbs.

Onion											Carrington
Hybrid	Seed source	Days to 1/2 down ^a	% Tops down 9/27 ^b	Yield				Total	Culls	Single centers %	# of bulbs 1000s/A
				1-2.25"	2.25-3"	3-4"	4-4.5"				
Centerstone	AT	133		10.6	111.4	159.3	0.0	281.3	0.7	53	63.4
Milestone	AT	124		23.5	228.9	112.8	0.0	365.2	1.5	40	96.8
T-433	AT		8	11.3	124.7	156.6	0.0	292.6	9.6	40	68.7
Abilene	SE		46	19.6	162.0	154.2	0.0	417.9	4.0	67	82.3
Caveat	SE		23	18.0	148.4	212.4	0.0	378.8	2.0	47	89.1
Richochet	SE	116		12.1	164.4	170.9	0.0	347.4	2.3	43	83.7
Jericho	SE	120		18.2	140.8	141.9	0.0	301.0	0.0	23	80.3
Tioga	SE		40	7.6	78.6	307.5	5.6	399.2	4.1	37	72.6
Teton	SE		40	15.2	122.9	151.4	4.5	294.1	10.0	40	68.7
Fortress	SE		29	23.6	77.3	22.7	0.0	123.6	8.9	27	46.0
Marquette	SE		45	16.5	166.0	232.1	0.0	414.6	9.7	73	100.2
Joliet	SE	138		16.1	241.6	150.1	0.0	407.8	5.7	43	101.2
Verrazano	SE	128		21.8	150.5	233.4	0.0	405.6	9.8	43	97.3
Arsenal	SE	116		14.8	184.9	78.0	0.0	277.7	0.0	53	76.5
Nebula	NH	130		17.5	210.8	174.5	0.0	402.8	2.3	50	98.0
Infinity	NH		18	21.5	183.2	196.8	0.0	401.6	7.1	50	98.3
Pulsar	NH	115		7.1	200.3	274.0	0.0	481.5	9.5	50	105.5
Montero	NH	133		12.1	189.5	290.9	0.0	492.5	16.4	75	103.1
Sabroso	NH		30	14.6	190.6	260.0	0.0	465.2	9.9	70	111.8
Centennial	BE	116		26.2	180.3	141.0	0.0	347.6	4.8	30	104.1
Tahoe	BE	133		21.4	158.6	155.4	0.0	335.4	4.2	27	79.9
Derby	BE	118		35.8	117.7	160.5	0.0	314.0	33.7	47	87.1
Desperado	BE		33	11.4	117.8	264.4	0.0	393.5	19.1	47	90.0
Cowboy	BE	113		30.1	135.2	113.1	0.0	278.4	0.0	60	88.1
Camry	BE		23	6.0	48.0	294.9	16.0	369.4	23.6	40	61.7
Patterson	BE	130		15.9	152.1	102.9	0.0	271.0	0.0	20	69.2
Calibra	BE		26	13.0	134.0	192.4	0.0	339.4	17.7	27	75.0
Monaco	BE		11	16.4	91.9	172.6	0.0	280.9	42.6	37	74.5
Crockett	BE		14	11.3	226.3	199.5	0.0	437.1	12.8	40	101.2
Talon	BE	144		10.8	155.6	159.7	0.0	326.1	0.0	60	70.2
Tamara	BE	141		16.3	149.6	180.4	0.0	346.3	0.5	27	80.3
Delgado	BE		6	10.0	125.8	294.2	0.0	430.1	24.5	50	94.4
Redwing	BE		13	13.0	192.8	195.1	0.0	401.0	6.5	53	97.8
Red Bull	BE		21	11.0	148.2	179.2	0.0	295.7	16.9	50	85.2
Gunnison	BE	136		8.7	175.4	258.7	0.0	442.8	0.0	45	95.8
Safrane	BE	144		13.6	159.9	169.4	0.0	283.4	1.5	35	81.3
Sedon	BE		20	10.7	127.8	262.1	0.0	400.5	29.3	25	86.4
Livingston	SS	143		21.5	192.4	93.2	0.0	352.0	0.0	27	94.4
Stanley	SS		45	10.3	248.4	178.3	0.0	437.0	3.9	20	101.6
Marco	SS	118		27.1	216.7	120.7	0.0	364.4	3.5	50	106.0
Polo	SS		13	16.6	160.6	116.7	0.0	294.0	29.1	63	72.6
4014	GG		45	17.7	152.7	188.3	0.0	358.6	0.4	37	89.5
Varsity	GG		40	11.2	126.2	232.0	5.6	375.0	28.0	53	78.9
2046	GG										
Nobility	CH	136		30.8	151.4	90.9	0.0	273.1	1.5	63	81.8
OLYX01-241	CH	126		22.0	103.2	117.9	0.0	243.1	6.6	37	66.8
LSD (P=.05)		8	16	10.6	74.5	86.1	NS	95.2	NS	28	23.2
CV		2	44	40	29	29	693	16	165	38	17
Grand Mean		254	27	16.5	156.1	180.3	0.7	354.2	9.4	44	85.7

^aMay 6 was used as the average planting date.

^b9/27 = 144 days after planting.